Appl. No. 10/528,464 Amdt dated January 20, 2006

Reply to Office action of October 6, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-6. (Canceled)

7. (Currently amended) In a fuel injection valve for internal combustion engines with a valve body (1) that contains a bore (3), which is delimited at its end oriented toward the combustion chamber by a valve seat (9) and whose end region oriented toward the combustion chamber has at least one injection opening (11), and with a piston-shaped valve needle (5), which is contained in the bore (3) in a longitudinally sliding fashion and has an essentially conical valve sealing surface (7) at its end oriented toward the combustion chamber, by means of which the valve needle (5) cooperates with the valve seat (9) so that when the valve needle (5) is resting against the valve seat (9), the at least one injection opening (11) is closed, and when the valve needle (5) is lifted away from the valve seat (9), fuel flows between the valve seat (9) and the valve sealing surface (7), then through the injection openings (11), the improvement wherein the valve seat (9) has a first conical partial surface (109) and a second conical partial surface (209), and wherein the second conical partial surface (209) is disposed downstream of and is raised in relation to the first conical partial surface (109), wherein the second conical partial surface (209) has the same cone angle as the first conical partial surface (109).

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8. (Previously presented) The fuel injection valve according to claim 7, wherein in its closed

position, the valve needle (5) rests against the second conical partial surface (209).

9. (Canceled)

10. (Previously presented) The fuel injection valve according to claim 7, wherein the second

conical partial surface (209) is raised by about 2 mm to 20 mm in relation to the first conical

partial surface (109).

11. (Currently amended) In a fuel injection valve for internal combustion engines with a

valve body (1) that contains a bore (3), which is delimited at its end oriented toward the

combustion chamber by a valve seat (9) and whose end region oriented toward the

combustion chamber has at least one injection opening (11), and with a piston-shaped valve

needle (5), which is contained in the bore (3) in a longitudinally sliding fashion and has an

essentially conical valve sealing surface (7) at its end oriented toward the combustion

chamber, by means of which the valve needle (5) cooperates with the valve seat (9) so that

when the valve needle (5) is resting against the valve seat (9), the at least one injection

opening (11) is closed, and when the valve needle (5) is lifted away from the valve seat (9),

fuel flows between the valve seat (9) and the valve sealing surface (7), then through the

injection openings (11), the improvement wherein the valve seat (9) has a first conical

partial surface (109) and a second conical partial surface (209), and wherein the second

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conical partial surface (209) is disposed downstream of and is raised in relation to the first

conical partial surface (109), The fuel injection valve according to claim 7, wherein

downstream of the second conical partial surface (209), the valve seat (9) is provided with a third

conical partial surface (309), which is recessed in relation to the second conical partial surface

(209).

12. (Previously presented) The fuel injection valve according to claim 7, wherein the valve

sealing surface (7) is provided with a sealing edge (17) that rests against the second conical partial

surface (209) when the valve needle (5) is in the closed position.